

Magnetic Storm



1. How far down is the Earth's core?
2. What is the Earth's core made of?
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+
3. The Earth's _____ is generated in the core.
4. What have scientists recently discovered about the field?
+
+
+
5. The _____ is created deep in the Earth's core. It streams out near the _____, loops around the planet, and then runs back into the core near the _____.
6. The magnetic field protects us from _____ from space.
7. Every few hours, the _____ ejects billions of tons of charged particles – the solar _____.
8. The only evidence of the particles hitting the magnetic field are the _____ and _____ lights.
9. In 1996, NASA sent a satellite to _____.
10. Does Mars currently have a magnetic field?
+
+
+
11. There is a way _____ rocks can be _____ when they form. If molten rock cools in a strong _____, ironbased minerals in it can pick up that magnetism and the resulting solid rock will itself be _____.
12. Mars began to lose its water and atmosphere about _____ years ago.
13. Clay contains tiny particles of a mineral called _____.
14. Clay does not become magnetic until it is _____ and cooled.
15. In _____ years, the field has decreased _____%.
16. Its really _____ inside the Earth's core that gives rise to the magnetic field.
17. The liquid metal in the core is in constant _____.
18. Mars may have lost its magnetic field because its core _____ and became solid.
19. Why don't scientists think that Earth's core cooling down is the cause of the decrease in strength of our magnetic field?
+
+

+
+

20. Going back about 700,000 years, the Earth's magnetic field was

_____.

21. On average, reversals happen once every _____ years.

22. On the computer simulation, every time a field reversal was about to happen, the strength of the magnetic field would _____.

23. Eighteenth and nineteenth century sailors had to know the difference between _____ north and _____ north.

24. During the weakened state of the magnetic field, the Earth may have as many as _____ magnetic poles.

25. About _____ people per year would die as a result of increased exposure to radiation.

26. It might be possible to see the _____ every night.